Material Safety Data Sheet





Revision Number: 006.2

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

Company address:

Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

3106 UV Curing General Purpose Adhesive Ultraviolet adhesive IDH number:

168331

Item number:23698Region:United StatesContact information:Telephone:860.571.5100Emergency telephone:860.571.5100Internet:www.henkelna.com

2. HAZARDS IDENTIFICATION

	EMERGENC		
		HMIS:	
Physical state:	Liquid	HEALTH:	*2
Color:	Transparent, Slightly Hazy	FLAMMABILITY:	2
Odor:	Mild	PHYSICAL HAZARD:	
		Personal Protection:	See MSDS Section 8
WARNING:	COMBUSTIBLE LIQU	-	
	HARMFUL IF SWALL	OWED, ABSORBED THROU	GH SKIN OR INHALED.
	DO NOT SPRAY, DO	NOT HEAT.	
	MAY CAUSE ALLERO	SIC SKIN REACTION	
		AND RESPIRATORY TRACT	
	CAUGES ETE, SKIN		IRRITATION:
Relevant routes of expo	sure: Skin, Inhalation, Eyes	i de la companya de l	
Potential Health Effects			
Inhalation:		s harmful if inhaled. Causes respirator hroat and possibly eyes. Headache. N	,
Skin contac		nay be absorbed through skin in harm	ful amounts. Taxis. May cause
Skill Colliac	allergic skin reaction.		iui amounts. Toxic. May cause
Eve contact	0		
Ingestion:		s harmful if swallowed. Toxic.	
Existing conditions agg exposure:	ravated by Eye, skin, and respira	tory disorders.	
	This material is consid 1910.1200).	dered hazardous by the OSHA Hazard	Communication Standard (29 CFR

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%	
Urethane Polymer	Proprietary	30 - 60	
Acrylate monomer	Proprietary	30 - 60	
Modified acrylamide	2680-03-7	10 - 30	
Photoinitiator	24650-42-8	1 - 5	
Substituted silane	Proprietary	1 - 5	
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5	
Photoinitiator	Proprietary	1 - 5	
2-Hydroxyethyl acrylate	818-61-1	0.1 - 1	

4. FI	RST AID MEASURES
Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin contact:	Immediately wash skin thoroughly with soap and water. Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention.
Eye contact:	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.
5. FIRE	FIGHTING MEASURES
Flash point:	77.8 °C (172.04 °F) Pensky Martens closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water may be unsuitable as an extinguishing media, but may be helpful in keeping adjacent containers cool.
Unusual fire or explosion hazards:	Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Irritating organic vapours. Toxic fumes. Isocyanates. Hydrogen cyanide. Amines. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:

Remove all sources of ignition. Do not allow product to enter sewer or waterways.

Clean-up methods:

Ensure adequate ventilation. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling:

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. DO NOT heat or spray. Use only in area provided with appropriate exhaust ventilation. Refer to Section 8.

Storage:

For safe storage, store at or below 26 °C (78.8 °F) Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Urethane Polymer	None	None	None	None
Acrylate monomer	None	None	None	None
Modified acrylamide	None	None	None	0.1 mg/m3 TWA (Skin) 0.025 ppm TWA (Skin)
Photoinitiator	None	None	None	None
Substituted silane	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Photoinitiator	None	None	None	None
2-Hydroxyethyl acrylate	None	None	None	None
Engineering controls:		ventilation is recomment htrol airborne contamin		

Respiratory protection:Use NIOSH approved respirator if there is potential to exceed exposure
limit(s). If this material is handled at elevated temperatures or under mist
forming conditions, without engineering controls, a NIOSH approved respirator
must be used.Eye/face protection:Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range:

Skin protection:

Liquid Transparent, Slightly Hazy Mild Not available Not applicable < 5 mm hg (20 °C (68°F)) > 200 °F (> 93.3 °C) Not available Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: 1.078 > 1 77.8 °C (172.04 °F) Pensky Martens closed cup Not available Not available Not available Slight Not available 2.16 %; 23.28 g/l (process) 1.05 %; 11.32 g/l (potential) 3.21 %; 34.60 g/l (total) (ASTM D5403)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Hazardous reactions:	May occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Irritating organic vapours. Isocyanates. Hydrogen cyanide. Amines.
Incompatible materials:	Strong oxidizing agents. Strong acids. Strong bases. Amines. Alkalis. Peroxides. Free radical initiators.
Conditions to avoid:	Keep away from heat, spark and flame. Avoid temperatures above 26°C (80°F). Store away from incompatible materials. Direct sunlight. Ultraviolet radiation. Freezing conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity	y:
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Modified acrylamide LD50 (rat) 316 mg/kg

Modified acrylamide LD50 (rabbit) 518 mg/kg

Acute dermal product toxicity:

Acute inhalation product toxicity:

Modified acrylamide LC50 (rat) 1 h > 776 ppm (vapor)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Urethane Polymer	No	No	No
Acrylate monomer	No	No	No
Modified acrylamide	No	No	No
Photoinitiator	No	No	No
Substituted silane	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Photoinitiator	No	No	No
2-Hydroxyethyl acrylate	No	No	No

Hazardous components	Health Effects/Target Organs
Urethane Polymer	No Records
Acrylate monomer Irritant, Allergen	
Modified acrylamide Irritant, Eyes, Mutagen, Kidney, Less weight gain a	
Photoinitiator	No Target Organs
Substituted silane	Irritant, Allergen
Silica, amorphous, fumed, crystal-free	Nuisance dust
Photoinitiator	No Records
2-Hydroxyethyl acrylate	Allergen, Central nervous system, Heart, Irritant, Kidney, Liver, Lung, Some evidence of carcinogenicity, Spleen

12. ECOLOGICAL INFORMATION

Ecological information:

Not available

13. DISPOSAL CONSIDERATIONS Information provided is for unused product only. Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations. Hazardous waste number: Not a RCRA hazardous waste. **14. TRANSPORT INFORMATION** The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification. U.S. Department of Transportation Ground (49 CFR) Proper shipping name: Combustible liquid, n.o.s. (Modified Acrylamide) Hazard class or division: Combustible Liquid Identification number: NA 1993 Packing group: Ш International Air Transportation (ICAO/IATA) Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (2,2-Dimethoxy-1,2diphenylethan-1-one, Isobornyl acrylate) Hazard class or division: 9 Identification number: UN 3082 Packing group: Ш Water Transportation (IMO/IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2-Proper shipping name: Dimethoxy-1,2-diphenylethan-1-one, Isobornyl acrylate) Hazard class or division: 9 Identification number: UN 3082 Packing group: Ш Marine pollutant: 2,2-Dimethoxy-1,2-diphenylethan-1-one, Isobornyl acrylate **15. REGULATORY INFORMATION**

United States Regulatory Information

TSCA 8 (b) Inventory Status: TSCA 12(b) Export Notification:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory. None above reporting de minimus
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	None above reporting de minimus Immediate Health, Delayed Health, Fire None above reporting de minimus
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.
WHMIS hazard class:	B.3, D.1.B, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1,5,8,10,12,14

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